

An
Inaugural Essay
on
Dropsy.

J. Littel

admitted March 15. 1821

at
flow
a d
tion
is de
man
Hydr
actu
conc
with
the co
of co
more
more
baw
mal
is per
of the
is con
into a

A preternatural collection of ~~serous~~ or watery fluid in any part or cavity of the body is called a dropsy. Although the disease may have particular names to distinguish it according as it is situated: now Anasarca when in the cellular membrane, Ascitis when in the Abdomen,

Hydrothorax when in ^{the} chest, &c yet the disease is actually the same, depending upon the same general causes & cured by the same remedies with but little or no variation.

In correct language dropsy, or the mere deposition of water can hardly be called a disease, it is more properly the effect of some wrong, or morbid action, already in the system.

Causes of Dropsy. To every one who is in the smallest degree acquainted with Physiology, it is perfectly well known that in the healthy state of the system a serous exudation or secretion is constantly taking place from the exhalants, into every cavity or interstice of the body,

capable of
taken up,
conveyed
it is not
a knowl
it will o
consequ
accuma
ling thro
diminut
beats.
nothing
of the ne
absolute
effect of
but a que
or the a
Here I s
in the c
section

capable of receiving it; and that it is soon taken up by the absorbent vessels, and again conveyed into the circulation, in a manner which it is not necessary to explain at present. From a knowledge of this fact in the animal economy it will be evident, that a dropsy must be the consequence if such an effusion be suffered to accumulate, either from an unusual quantity being thrown out by the exhalents, or from a diminution or interruption of power in the absorbents. From this it appears, that dropsy is nothing more than the effect, of a destruction of the natural ballance, existing between the exhalents & absorbent vessels. That dropsy is the effect of this destruction, will not be denied; but a question may arise, whether the exhalents or the absorbents are most frequently in fault. Here I believe, the generality of practitioners concur in the opinion, that the increase of effusion or secretion, is by far the most frequent cause;

but that it
want it p
abandonment
frequent
effusion
obstruction
either from
and the
part, but
from other
accidents, in
some cases
the impo
not consid
insure exc
that the a
taken & by
the inhalin
hand when
abortion, 1

but that it may occasionally arise also from a want of power or interruption in the action of the absorbents is equally true, though this is not a frequent cause of this disease. The increase of effusion may arise from whatever affords an obstruction to the free return of blood to the heart, either from disease of the blood vessels themselves or of the heart, as ossification, aneurism, polypus &c or from pressure on the blood vessels from other causes, as pregnancy, tumours, ascites, Schirrophities of the abdominal viscera & more particularly of the liver. It might not be improper here to remark that Dr Cullen does not consider obstruction in any of the abdominal viscera except the liver, as causes of dropsy. That the above causes may impede the circulation & by that means increase the action of the exhalents is very evident, but on the other hand when dropsy depends upon a want of absorption, the cause of this deficiency is not manifest.

to them
to give
for the
of the
your
the
even
tion of
sexual
Althoug
proceed
or other
to lose
the
the
pro
in
shall
the
the
the
the

but from ^{the} same remedies being beneficial which act on
the principle of stimulating the part as for example
friction: may we not infer it to be arising to a debility
of the vessels of that part. Dropsy may also arise
from more debility, or what has been called a
Hydropic Diathesis, in this case the absorbents certainly
are in fault. Intemperance, Indolence, large evacua-
tion of blood, sudden suppression of accustomed
evacuation &c are mentioned also as causes of dropsy.
Although it may & does frequently arise from the
preceding causes, yet it is more frequently the effect
of other diseases, as Cut. Asthma Angina
Pectoris, Scarlet Fever Erysipelas. Diarrhoea
Gynsentry, Jaundice &c and more especially
from protracted Intermittent Fever. Having thus
enumerated the seats & causes of dropsy,
I shall proceed on relating the symptoms, not
thinking it necessary to mention all the symptoms
attendant on the various forms of dropsy
I shall confine myself in the following observation

to the spine
the surface of
the extremities
in the evening
the swelling, &
which slowly
and at first
upwards to
the head
the skin is
very red, and
through the
the form
the legs, feet
in quantity
the legs, feet
the legs succ
the legs
the legs of the o
the legs of the o

to that species of it called *Anasarca*.

Anasarca commences with a swelling of the lower extremities, which at first appears only in the evenings, in the morning disappearing, the swelling is elastic, pressing under the finger under slacks, fills up again, the swelling which was at first confined to the ankles, gradually extends upwards to the thighs, trunk of the body, & even to the head & face, which appears puffed up, the skin is sometimes greatly distended, fluid issues out or being too viscid, or crops to spots through the pores of the cuticle, causes it up
• in the form of little bubbles, the skin is cold, dry, & glossy, pale smooth. The urine is diminished in quantity, there is great thirst, generally, castoreum, tart. emetic before, emence and evacuation, to these succeed stupor, heaviness and a slow pulse. This form of dropsy, very frequently, precede some of the other forms, & not unfrequently, in the advanced stage several of them are present at

110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

The same time our prognoses in this disease
are generally so favorable, when the urine
is increased in quantity, when there is much
rash on the surface of the body, when
there is not much debility or emaciation,
when there is a diminution of thirst, & especially
when there is no visceral obstruction but great
evacuation drawsewps, organic affection, dry-
ness, great thirst & white heat, quick & restless
pulse, with hemorrhages. Petechia &c are to
be regarded as very unfavorable symptoms.

Having then considered the causes, sorts, & symptoms
of dropsy. I must proceed to the consideration of
the cure. To this end all our views & opinions
tend, but were I convinced in the accuracy
of the statement, generally given by European
practitioners respecting the cure of this disease,
I should interpose it with no flattering hopes
of success; there is however, perhaps no disease
to which the maxim is the venerable Boerhaave is

silver,
 dark
 1 in 1
 and 1
 complete
 a good
 coming
 family
 silver
 heated,
 silver
 in the
 bottom
 in the
 from
 for sup
 and
 a little
 for a
 6. no. 1

more applicable than they present which is "to
attack diseases in their earliest state and eradicate
them before they are deeply rooted in the system"
and to the method of this practice & principally
inquire how want to succeed; a small evacuation
is good, or a slight purge will do more towards
curing dropsy in the early stage, than the most
powerful medicines we can employ; at a more
advanced period thousands recover when thus
treated, but in many few ~~where~~ the disease is
suffered to fasten itself upon the system.

In the commencement of the cure of dropsy, we
must in the first place remove if possible the cause
of the disease; if it is obstruction to the circulation
from tumors, we must call in the aid of
the surgeon; if it be general debility, we
must restore tone to the system; if the patient
is addicted to intemperance, he must forsake
the embriating draughts; if he is indolent
or inactive, we must arouse him to enterprise.

cultures of

Sept, 1884

Signature

1.466 200.

Alcornoque

all the of Sec

2. *Vereth*

Y. H. H. H. H.

self patient

1947-1948

and prime

Mar. 1891

147 3000

23 *Quercus*

1864

100

exhaustion, if it is caused by large evacuation in
blood, these must be suppressed, or if from the sup-
-pression accustomed discharges we must restore
these again to the system. But unfortunately,
the curative may either be too warm or too cold,
or be of such a nature as to prevent our attacking
it directly with remedies, hence the cure is difficult
& tedious, nevertheless we must not abandon
our patient & remain inactive, but resort to the
means we possess of evacuating the blood
thus, being guided in some measures by that
special star of the system the pulse. The remedies
we are in possession of for this accomplishment are
a. The means first mentioned are 1st Bleeding
2nd Emetics 3rd Purging 4th Diuretics 5th Expector-
atives 6th Evacuants 7th Irritants 8th Stomachics
That a blood letting is highly useful & repeated
in most cases a drop is confirmed to the
experience of all Physicians of the present age
(I especially those of America.)



in design generally, in pulse & least & corded,
so in a. or even both. The surface is dry, the tongue
 parched, and the skin when drawn exhibits
a long coat, an more denoting arterial action,
which in this case, most other cases must be
reduced to the same, other remedy can be prescribed
with utility, & sometimes even before they will
work a cure, & in some venisection is not so
frequently called for in unguinea as in some
other form, yet generally the affection is of an
inflammatory nature, & calls loudly for the
canal. Indeed in some forms of dropsy, &
especially in that called hydropic, from the
authority of O'Leary we have led to conclude,
that venisection is as necessary to the mercurial
as to the opiate, as emetics & purges to the
administration of bark in intermittens. Several
English practitioners being occasionally
employed in curing dyspepsia, practitioners were
naturally led to enter their utility, when artificially

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

de l'at.

excited. The 1. g. was then to be continued till no
more could be given, & as it proved, but three or four grains
it is immediately conveyed to parts where the stomach
is loaded with offensive matter. At the present
time Hygiea is hardly in no great reputation but
having given way to other more certain means, & finally
to Purging. The use of astringent drops is no
more and it is employed by Sydenham & is much
relocated. In almost all the children, the drastic
and such is Gombert, & commonly, & is to be used
where most efficacious, but however is not true in
all cases. Hygiea is to be more & is especially applic-
able to old dropsies attended with a torpid condition
of the alimentary canal, but in recent cases
and where there is much febrile heat present, we
find the saline cathartics much more prefer-
able, & even the hyperbolic of Polak & others
is in some instances to be beneficial
however as a cathartic it must be given so
as to prevent its diuretic effects, & for this purpose

[Faint handwritten notes, possibly bleed-through from the reverse side.]

It is recommended in the same section. But
conline with the cream of Tartar, Jalap, we are led
to believe from the authority of Dr. Wharman that
it is violent and easily increased. In this way, he
has found it one of the most beneficial remedies
in ever used, being (to use his own words) "both
powerful & salutary in its effects." The manner
of giving it is in the quantity of ℥ii or ℥iij of the
former and x or xv grs of the latter irregularly
repeated so as to keep up a continual discharge.
The water still remaining we must in the next
place resort to those remedies which act more
particularly on the lymphatic system. Purgatives
or Diuretics. As a diuretic in dropsy, the
cream of tartar is eminently & deservedly employed.
It is even thought superfluous to repeat, when
properly, with sparing, water copious
diuresis. It may be given in the quantity of ℥i
in a quart of water through the course of the
day. In this way it operates as a diuretic only.

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

1874

but Dr. Chapman recommends it in the form of an
electary, where it acts & produces both copious
discharges of urine & abounds evacuation.

The benefit is not so easy once a remedy of no small
moderation, but is now in great measure superseded
by more powerful means, a frequent cause however
of its failure - when it arises in its being given
in too violent doses, but an objection to it does
not it is extremely apt to nauseate the patient.
The common *Conley's* & *Chapman's* spirits being
it is very useful in dropsy,

it may be given in infusion, and parts of it is absorbed
the roots. Among all our remedies for the evacuation
of water in dropsy, none is perhaps so likely to
prove aspersive than *Digitalis*. The credit is due
to the history of first having introduced it for this
purpose, when sentiments respecting it are
divided, in evidence of its superiority to others,
it has been, indeed in days so far as the circumstances
permit the evacuation of water, so long.

Aug 1
1841
1842
1843
1844
1845
1846
1847
1848
1849
1850
1851
1852
1853
1854
1855
1856
1857
1858
1859
1860
1861
1862
1863
1864
1865
1866
1867
1868
1869
1870
1871
1872
1873
1874
1875
1876
1877
1878
1879
1880
1881
1882
1883
1884
1885
1886
1887
1888
1889
1890
1891
1892
1893
1894
1895
1896
1897
1898
1899
1900

may be rendered more. Voltaire, standing the high
reputation in which his artistic talents as a dramatist
and his manner of writing, cannot practically get
that one not meeting these ^{two} things together,
and that I therefore standing in a great measure
to prejudice, or evenness of the state to which it
is applicable, for as long as one assumes the least
excitement in the public, the remedy will not only be
ineffective, but pernicious. Just notice of these
is then & then is seen as productive of the happiest
effects, proceeding almost as certainly, directly, as
intended testimony or a watchman's power. In the
it may be given in private or in public, and it
will be the same. The danger is in the former
case, is that too dangerous. Although the above
opinion which I have advanced as to the
state to which the remedy is applicable is the
one contended for this Society, yet it is contradicted
by a number of members of a neighbouring university,
who it is only applicable is that the latter is indicated

1. $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

2. 1848.

capitata

Algeria

11

1.

10

1870

1

7

1897

2000

1000

class 2

17. 1884

12

For when it anoints as a snail, too, at the same time
averse to its life, saying its name "Agilis,"
indicates its effects, it points to the grave."

similar to the preceding, in some respects is the
 tobacco; but it is at once both a disagreeable and
 dangerous medicine & is not generally employed.

The Hydrate is a remedy of some utility as a diuretic
when given in the dose of X or XV grs twice or three
times, or a large dose it operates as a purge. The
dose here is rather weak but is so remedy that once
enjoyed considerable regularity, but is hard to take
or much of its effect, and is more irascible
as it is much employed. It is more numerous acci-
dents to cause another, but is rather a weak
remedy. It is not taken or a small portion of
it as it is rather weak X or XV grs. mixed with
linseed or castor oil. It is mixed with the admi-
nistrated, and also in the eyes and especially in
the lower forms of drugs; when given in small
doses it produces irritation of the kidneys. Strongly

But where
the day
case can
ation
There was
entirely un-
died) James
water of
the cause
attribution
measured,
may be ge-
to address
of following
Prophane
let me
known as
rearing
now said
The int-

but when given in the quantity of ʒii or ʒiij through
the day, it will prove powerfully diuretic & evacuating
large quantities of water. The last article I shall
mention as a diuretic is the Squill.

This is decidedly the most certain & efficacious
article we possess of a diuretic. In general I believe
it is given in too small doses, I have known the
water of universal dropsy, completely evacuated in
the course of a few days, by the patient taking large
quantities of the infusion, when given alone, this I
consider the best way of using it, but its virtues
may be greatly increased when given in powder
by adding calomel to it & sometimes a little nitrate
of Potash.

Diaphoretics are medicines which once were of
great repute in the cure of dropsy, much of which
however is now lost; nevertheless they are useful
especially in dropsies brought on by Intermittent
fevers, and where the skin is parched & dry.
Of the external means. Vapour bath is perhaps

How much
especially
the building
no books
obstruction
from the
indistinct
effect
as a result
hand, glass
but could not
entirely
the paper
growing
also, and
any person
in the
from the
as the
the history of the

The most preferable. Of the internal remedies, opium especially, in the form of Dover's powder is highly useful. The swelling still continuing and the strength of the patient not forbidding; especially in dropsy, from visceral obstruction we may sometimes experience much benefit from the use of mercury, urged to a salivation, and indeed we would naturally be led to expect such effects from the great power of this article over the absorbent system. Local Means. Friction with the hand, flesh brush, or with flannel are sometimes useful, but should not be trusted in to the exclusion of other more certain means. The skin still remaining distended by the pressure of water, we may puncture it with a lancet, guarding however that they be small, distant from each other, and not in the most depending part of the lower limb, as gangrene may sometimes arise from them. If this however should unfortunately occur either from the cause above, distention or from the injudicious application of blisters, the best remedy is the application of a flannel roller to the limb. This remedy in the authority of Dr. Chapman is of great utility.

[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]

[Faint handwriting visible on the edge of the adjacent page.]